

## **In the Claims**

The following Listing of Claims replaces all prior versions in the application:

### LISTING OF CLAIMS

1. (Currently amended) An aAdaptive routing process of objects in a network containing a plurality of ~~router~~network routers (1) linked between themselves by links (2). Each, each ~~router~~network router includes:including M incoming links, N outgoing links, internal and external queues, an M size routing butter and a processing module, and

————— M incoming links (2a) and N outgoing links (3)

————— An external queue (4)

————— An M size routing buffer (5) and

————— A processing module (6)

Each ~~each~~ ~~router~~network router is being linked with a routing table including values relating to the estimation of the number of deflections undergone by each object at the start of this ~~the~~ ~~router~~network router for a given destination, the :

The said process containing ~~including~~ a first ~~initialisation~~ ~~initialization~~ stage (E1) for the value tables linked with each ~~router~~network router and then a recurrent processing stage of each network link, the recurrent processing stage comprising ~~consisting of~~:

- a) detecting at least one object has arrived on at least one ~~router~~network router (E2)
- b) considering each network link and ~~seeing~~ ~~determining~~ if there is at least one object on the considered ~~se~~ links (E3)
  - if ~~there is at least one object on a considered link, yes move~~ moving the at least one objects along the links ~~link of~~ for a unit of time
  - if ~~there is not at least one objected on a considered link, waiting~~ not wait for a unit of time
- c) ~~consider~~ considering each network router and for each considered network router ~~detect~~ ~~detecting~~ the state of these incoming links (E4)

- if the presence of an object is detected on an ~~entering-incoming~~ link and the destination ~~of this object thereof~~ is the considered network router ~~considered~~, then removing the detected ~~said object having arrived at the destination~~ it is removed from the network,
  - if ~~any no~~ object whose ~~with a destination~~ is the considered network of this router is ~~not~~ detected on the incoming links, then ~~check~~ checking the state of the internal queue of the considered network router,
  - if the internal queue of the considered network router contains objects then ~~transfer~~ transferring these contained objects in the routing buffer of the considered network router (E4b1),
  - if the ~~said~~ routing buffer of the considered network router is not full then ~~verify~~ verifying if objects are on standby in the external queue (E4b4) and ~~fill~~ filling the buffer with one or more ~~a part at least~~ of the objects on standby ~~in this external queue (E4b3) characterised by the fact that it consists of,~~
- d) allocating the content of ~~the a~~ routing buffer on the outgoing links of the considered network router according to the linked routing table and dynamically ~~estimate~~ estimating the number of deflections which ~~the~~ objects will undergo on forward points of the considered network router to reach their destination (E4e),
- e) updating the linked routing table values to estimate the number of deflections undergone on ~~the a~~ whole path by the objects (E4d5, E4d4).

2. (Currently amended) Process according to claim 1, ~~wherein, upon~~ characterised by the fact that at the arrival of the an object at a destination router, said destination ~~each router sends to the a preceding router an acknowledgement of receipt indicating the an estimated number of deflections undergone by the object to go up to reach the destination router.~~

3. (Currently amended) Process according to claim 1 ~~characterised by the fact that~~ stages wherein steps c) to e) are carried out successively for each network router.

4. (Currently amended) Process according to claim 1 ~~characterised by the fact that~~  
~~stages~~wherein steps c) to e) are carried out simultaneously for each network router.

5. (Currently amended) Process according to claim ~~2~~ 1 ~~characterised by the fact that~~  
~~stage~~wherein step c) consists of updating network routing tables by taking into account the  
~~information that stage e)~~ consists of taking into account the information contained in the  
acknowledgment of receipt sent by all the neighbouring routers to update the routing  
~~tables~~neighboring network routing tables.

6. (Currently amended) Process according to claim 2 ~~characterised by the fact that~~  
~~stages~~wherein steps c) to e) are carried out successively for each network router.

7. (Currently amended) Process according to claim 2 ~~characterised by the fact that~~  
~~stages~~wherein steps c) to e) are carried out simultaneously for each network router.

8. (Currently amended) Process according to claim 4 ~~characterised by the fact that~~  
~~stage~~wherein step c) consists of updating network routing tables by taking into account the  
~~information that stage e)~~ consists of taking into account the information contained in the  
acknowledgment of receipt sent by all the neighbouring routers to update the neighboring  
network routing tables.